

What is claimed is:

- 1 1. An electro-medical system comprising:
2 a container including an electrical device therein;
3 a porous first covering over the container, wherein the porous first
4 covering includes a porous communication to the container.

- 1 2. The electro-medical system of claim 1, wherein the porous first covering
2 is selected from expanded ultra-high molecular weight polyethylene, a porous
3 fluoropolymer, porous poly tetrafluoroethylene, a porous polyester, a porous
4 polyurethane, a porous polyamide, and combinations thereof.

- 1 3. The electro-medical system of claim 1, the system further including:
2 a lead including a proximal end that is coupled to the container, a lead
3 body, and a distal end including an electrode, wherein the electrode is covered
4 with a porous second covering.

- 1 4. The electro-medical system of claim 1, wherein container is completely
2 covered in the porous first covering.

- 1 5. The electro-medical system of claim 1, the system further including:
2 a lead including a proximal end that is coupled to the container, a lead
3 body, and a distal end including a coil, wherein the coil is covered with a porous
4 second covering.

1 6. The electro-medical system of claim 1, the system further including:
2 a lead including a proximal end that is coupled to the container, a lead
3 body, and a distal end, wherein at least two of the proximal end, the lead body,
4 and the distal end are covered with a porous second covering.

1 7. The electro-medical system of claim 1, the system further including:
2 a lead including a proximal end that is coupled to the container, and a
3 distal end including an electrode, wherein the electrode is covered with a porous
4 second covering; and
5 wherein at least one of the porous first covering and the porous second
6 covering includes a pore structure that repels *in vivo* fibrotic tissue ingrowth.

1 8. The electro-medical system of claim 1, the system further including:
2 a lead including a proximal end that is coupled to the container, and a
3 distal end including an electrode;
4 a dielectric coating over the proximal end; and
5 a porous second covering over the electrode.

1 9. The electro-medical system of claim 8, wherein the dielectric coating is
2 selected from inorganics, silicone rubber, polyurethane, polytetrafluoro ethylene,
3 fluoro polymers, and polyolefins.

1 10. The electro-medical system of claim 1, wherein the system further
2 includes a plurality of leads.

1 11. The electro-medical system of claim 1, the system further including:
2 a lead including a proximal end that is coupled to the container, and a
3 distal end including an electrode, wherein the electrode is covered with a porous
4 second covering, and wherein the porous second covering is selected from
5 expanded ultra-high molecular weight polyethylene, a porous fluropolymer, a
6 porous poly tetrafluoroethylene, a porous polyester, a porous polyurethane, a
7 porous polyamide, and combinations thereof.

1 12. The electro-medical system of claim 1, wherein the container houses an
2 electrical device, selected from a cardiac pacemaker, a cardiac defibrillator, a
3 neurostimulator, and a combination thereof.

1 13. The electro-medical system of claim 1, wherein the container houses a
2 monitor.

1 14. The electro-medical system of claim 1, wherein the container houses a
2 monitor with a functionality selected from blood pressure, temperature, oxygen, at
3 least one blood sugar, at least one lipoprotein, at least one blood gas, insulin, at
4 least one electrolyte, heart rate, respiration, and a combination of at least two
5 thereof.

1 15. The electro-medical system of claim 1, wherein the porous first covering
2 over the container is disposed over a dielectric coating, and wherein the dielectric
3 coating causes the container to be one selected from an insulated container and a
4 hot can.

1 16. An electro-medical system comprising:
2 a lead including a lead proximal end, a lead body, and a distal end
3 including electrical communication selected from an electrode, a wire, and a coil,
4 wherein lead includes a porous covering that includes a porous communication to
5 the lead, and wherein the porous covering includes a pore structure that repels *in*
6 *vivo* fibrotic tissue ingrowth.

1 17. The electro-medical system of claim 16, wherein the porous covering is
2 selected from expanded ultra-high molecular weight polyethylene, a porous
3 fluoropolymer, porous poly tetrafluoroethylene, a porous polyester, a porous
4 polyurethane, a porous polyamide, and combinations thereof.

1 18. The electro-medical system of claim 16, the system further including:
2 a container that is coupled to the lead, wherein the container is covered
3 with a porous first covering, and wherein the porous covering on the lead is a
4 porous second covering.

1 19. The electro-medical system of claim 16, the system further including:
2 a dielectric coating over at least one of the proximal end and the lead
3 body.

1 20. The electro-medical system of claim 19, wherein the dielectric coating is
2 selected from inorganics, silicone rubber, polyurethane, polytetrafluoro ethylene,
3 fluoro polymers, and polyolefins.

1 21. The electro-medical system of claim 16, wherein the lead is one of a
2 plurality of leads.

1 22. An electro-medical system, comprising:
2 a container including an electrical device;
3 a dielectric coating over the container;
4 a passage through the dielectric coating to form an exposed portion of the
5 container; and
6 a porous first covering over the exposed portion of the container.

1 23. The electro-medical system of claim 22, wherein the porous first covering
2 is selected from expanded ultra-high molecular weight polyethylene, a porous
3 fluoropolymer, porous poly tetrafluoroethylene, a porous polyester, a porous
4 polyurethane, a porous polyamide, and combinations thereof.

1 24. The electro-medical system of claim 22, the system further including:
2 a lead including a proximal end that is coupled to the container, a lead
3 body, and a distal end including an electrode, wherein the electrode is covered
4 with a porous second covering.

1 25. The electro-medical system of claim 22, the system further including:
2 a lead including a proximal end that is coupled to the container, a lead
3 body, and a distal end including an electrode, wherein at least two of the proximal
4 end, the lead body, the distal end, and the electrode are covered with a porous
5 second covering.

1 26. The electro-medical system of claim 22, the system further including:
2 a lead including a proximal end that is coupled to the container, and a
3 distal end including an electrode, wherein the electrode is covered with a porous
4 second covering; and
5 wherein at least one of the porous first covering and the porous second
6 covering has a pore structure that repels *in vivo* fibrotic tissue ingrowth.